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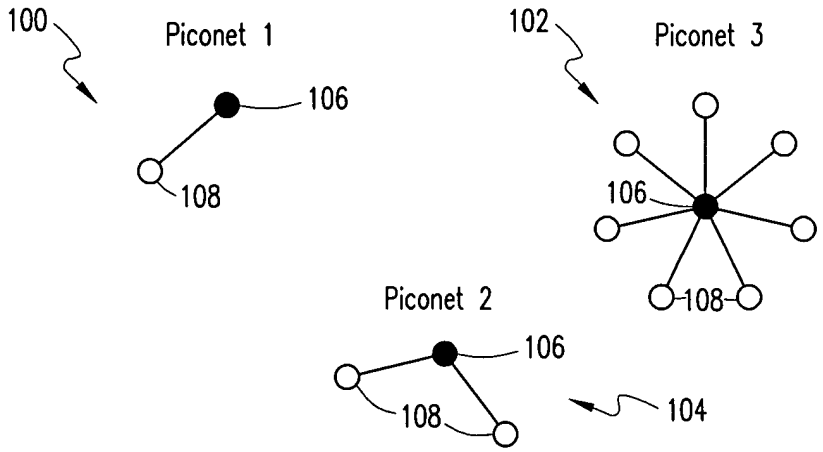

FIG. 1
(PRIOR ART)

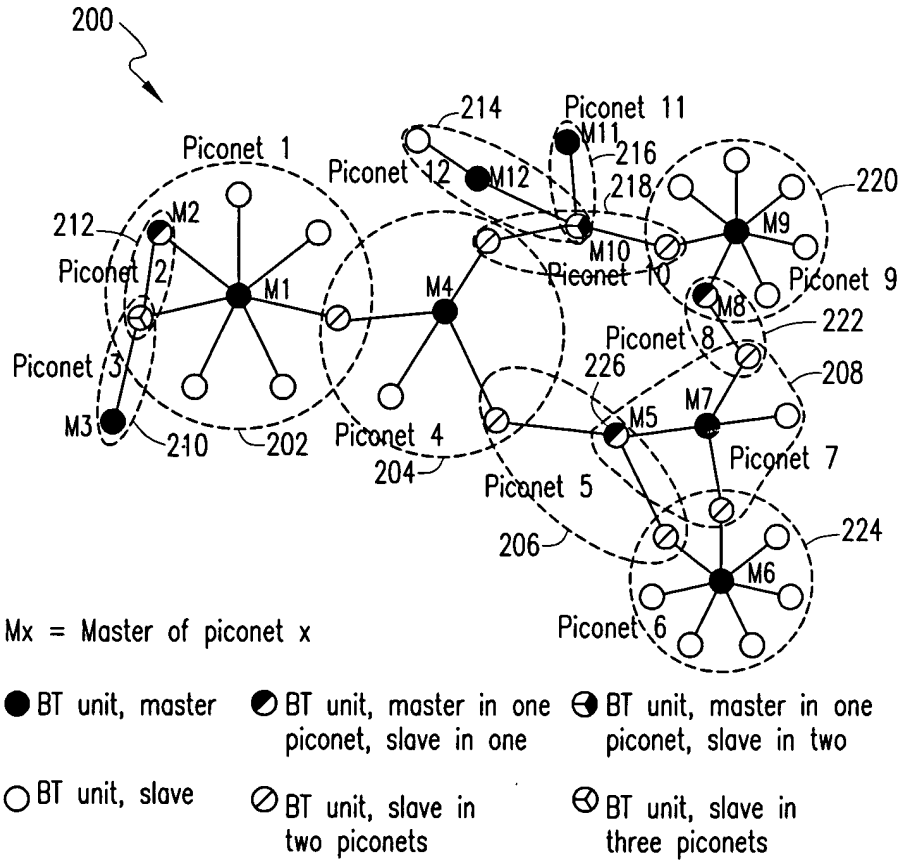

FIG. 2
(PRIOR ART)

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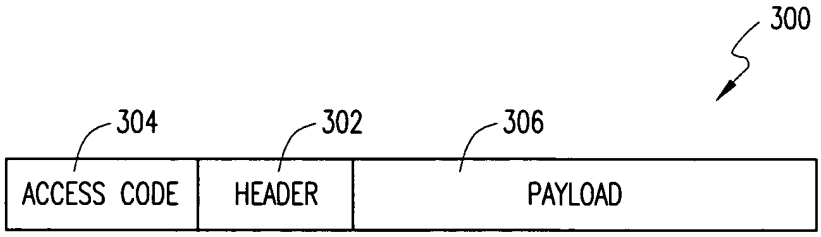

FIG. 3
(PRIOR ART)

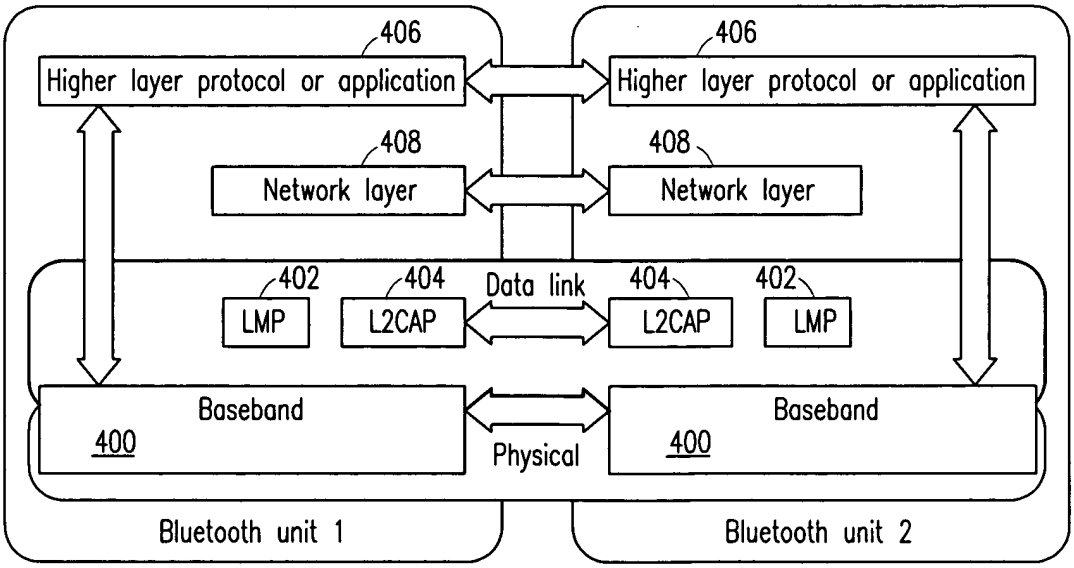

FIG. 4
(PRIOR ART)

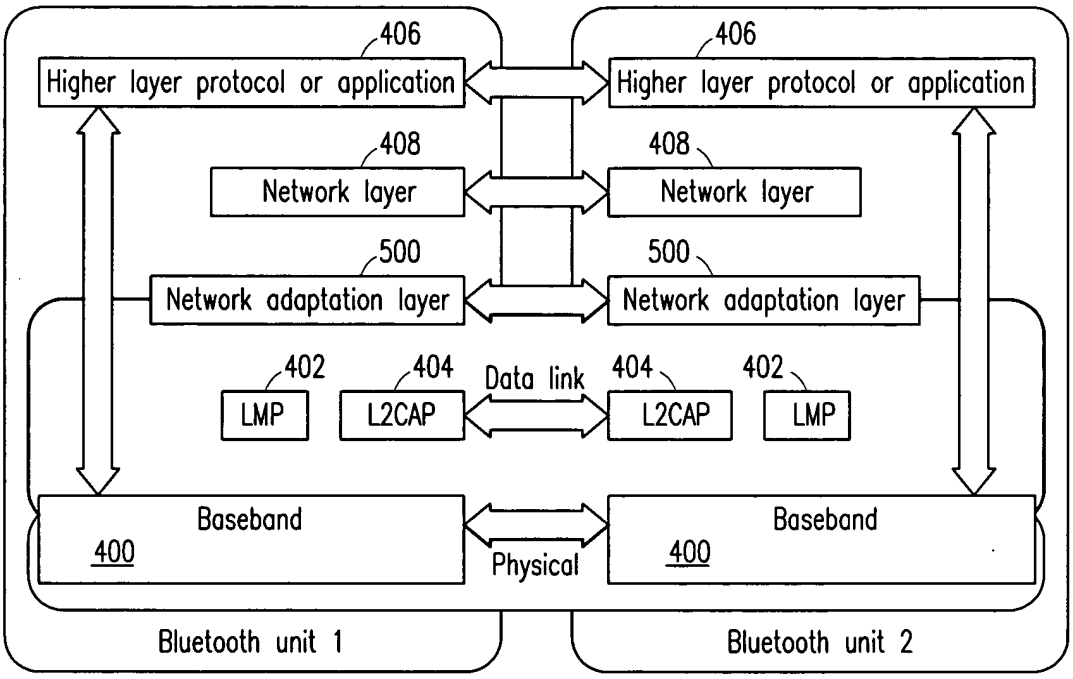

FIG. 5
(PRIOR ART)

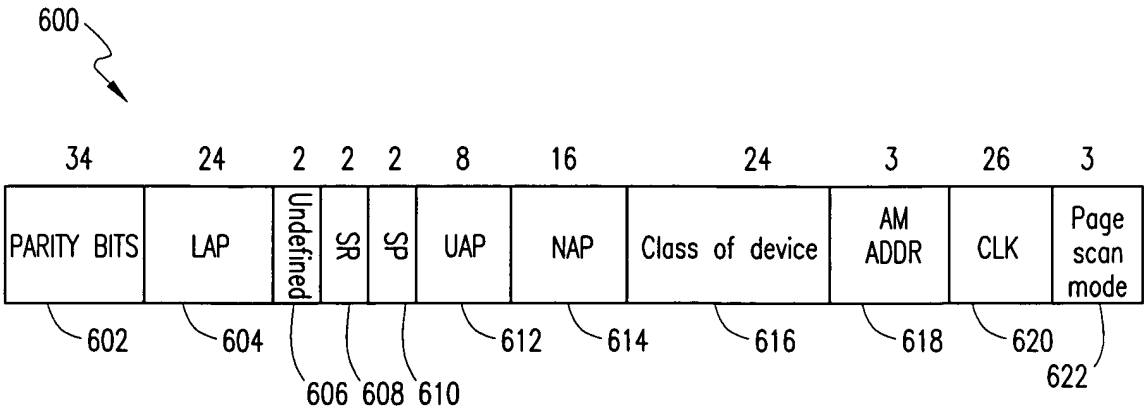

FIG. 6
(PRIOR ART)

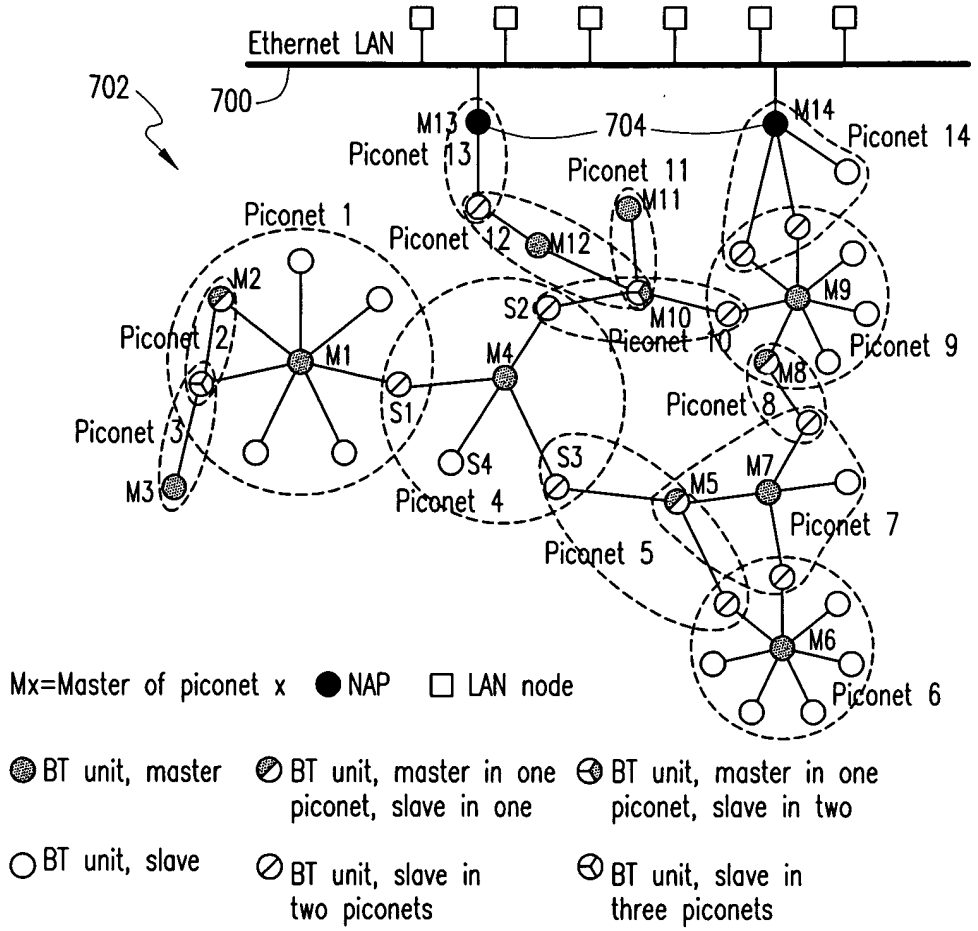

FIG. 7
(PRIOR ART)

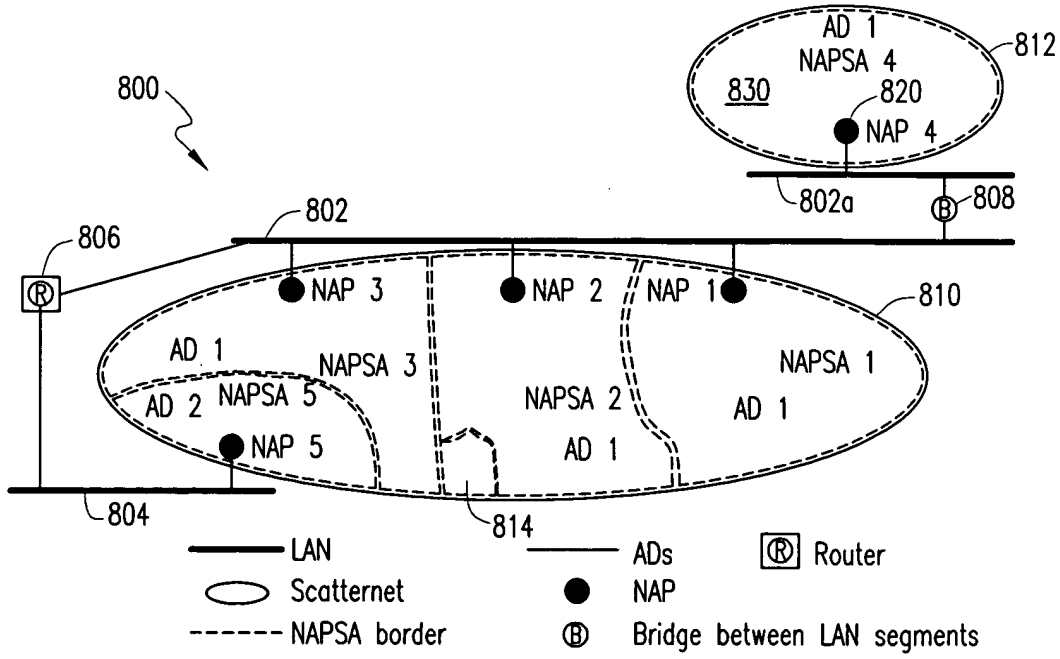

FIG. 8
(PRIOR ART)

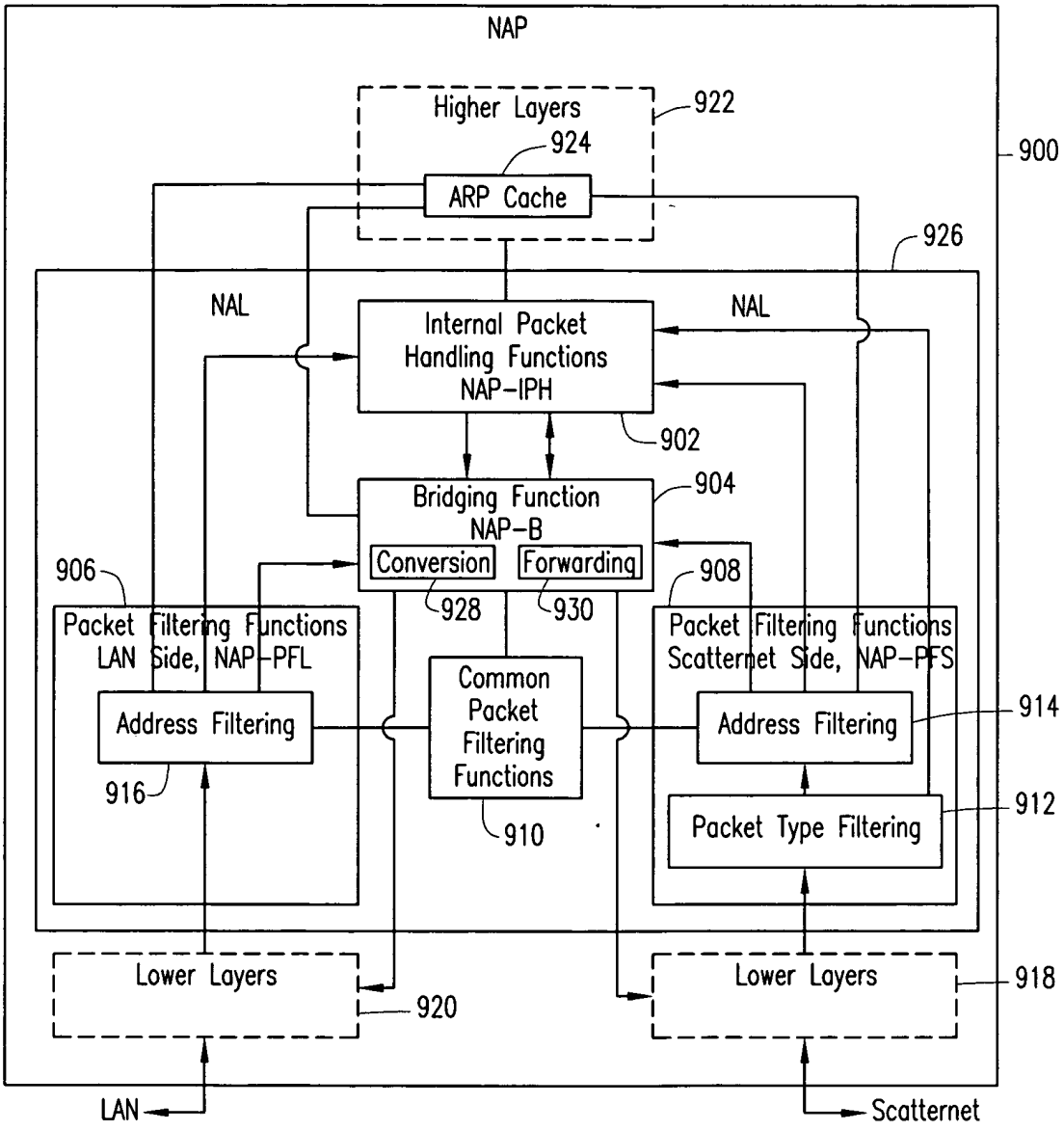
NAP
Higher Layers
922
924
ARP Cache
900
926
NAL
NAL
Internal Packet Handling Functions NAP-IPH
902
Bridging Function NAP-B
904
Conversion
Forwarding
906
908
928
930
Packet Filtering Functions LAN Side, NAP-PFL
Packet Filtering Functions Scatternet Side, NAP-PFS
Common Packet Filtering Functions
Address Filtering
Address Filtering
914
916
910
Packet Type Filtering
912
Lower Layers
Lower Layers
918
920
LAN
Scatternet
Functional interface with unidirectional packet flow
Functional interface with bi-idirectional packet flow
Functional interface without packet flow

FIG. 9

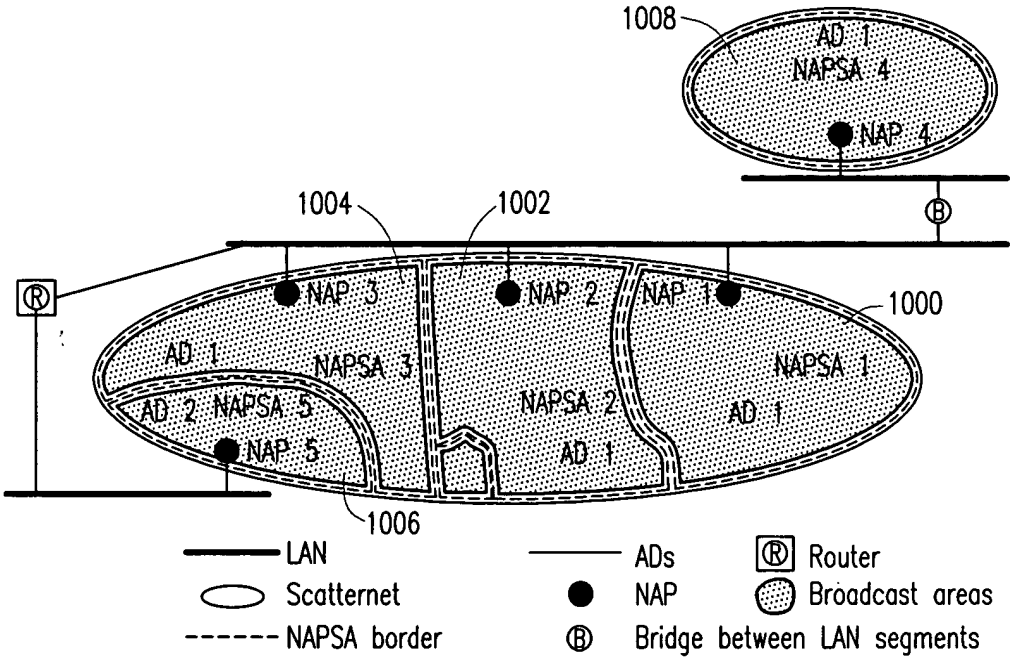
1008
AD 1
NAPSA 4
NAP 4
1004
1002
NAP 3
NAP 2
NAP 1
1000
AD 1
NAPSA 3
NAPSA 1
AD 2 NAPSA 5
NAPSA 2
AD 1
NAP 5
AD 1
1006
LAN
ADs
Router
Scatternet
NAP
Broadcast areas
NAPSA border
Bridge between LAN segments

FIG. 10

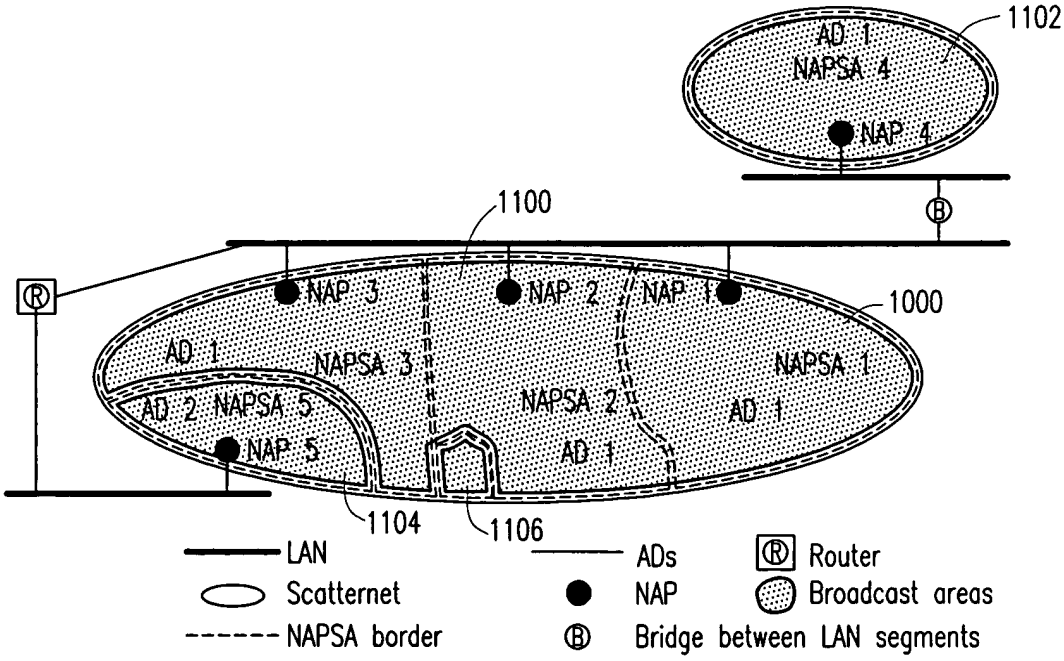
1102
AD 1
NAPSA 4
NAP 4
1100
NAP 3
NAP 2
NAP 1
1000
AD 1
NAPSA 3
NAPSA 1
AD 2 NAPSA 5
NAPSA 2
AD 1
NAP 5
AD 1
1104
1106
LAN
ADs
Router
Scatternet
NAP
Broadcast areas
NAPSA border
Bridge between LAN segments

FIG. 11

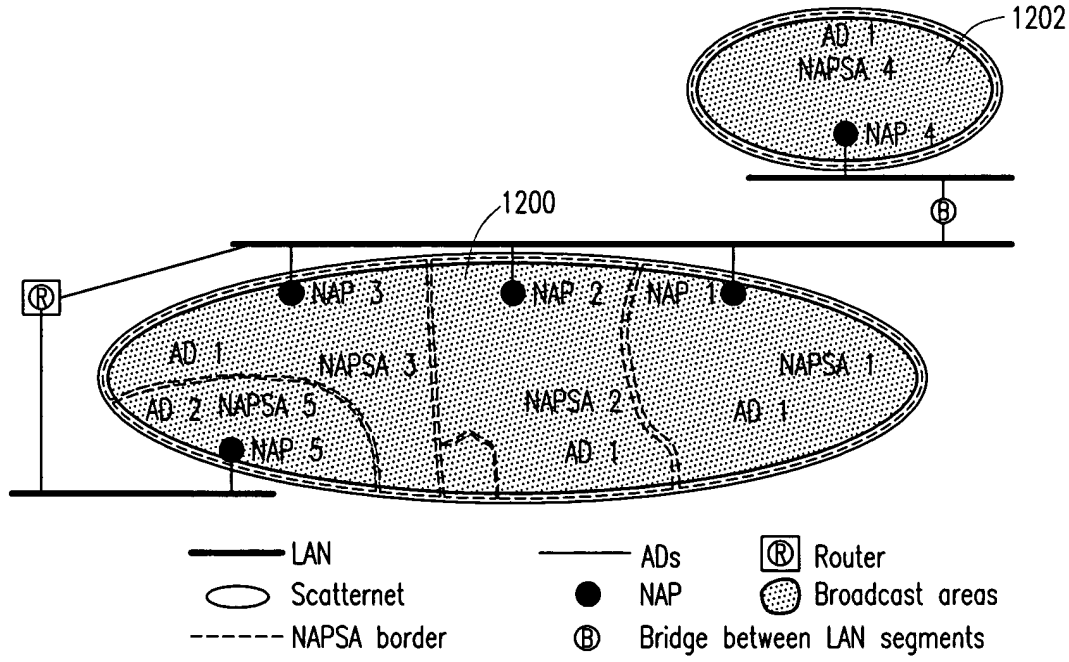
1202
AD 1
NAPSA 4
NAP 4
1200
NAP 3
NAP 2
NAP 1
AD 1
NAPSA 3
AD 2 NAPSA 5
NAP 5
NAPSA 2
AD 1
NAPSA 1
AD 1
LAN
ADs
Router
Scatternet
NAP
Broadcast areas
NAPSA border
Bridge between LAN segments

FIG. 12

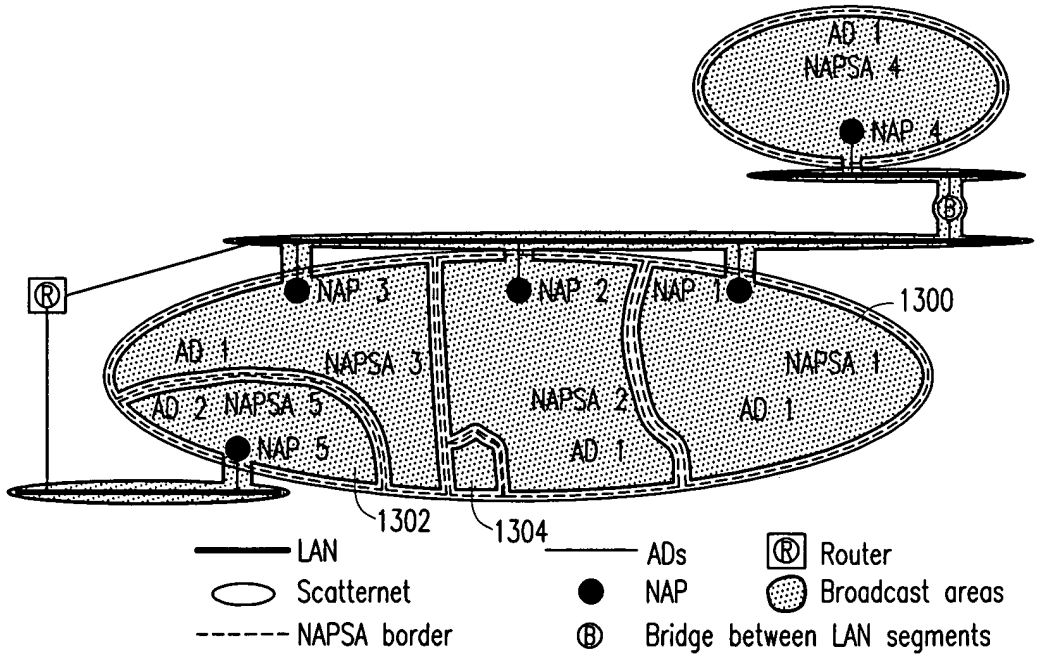
AD 1
NAPSA 4
NAP 4
NAP 3
NAP 2
NAP 1
1300
AD 1
NAPSA 3
AD 2 NAPSA 5
NAP 5
NAPSA 2
AD 1
NAPSA 1
AD 1
1302
1304
LAN
ADs
Router
Scatternet
NAP
Broadcast areas
NAPSA border
Bridge between LAN segments

FIG. 13

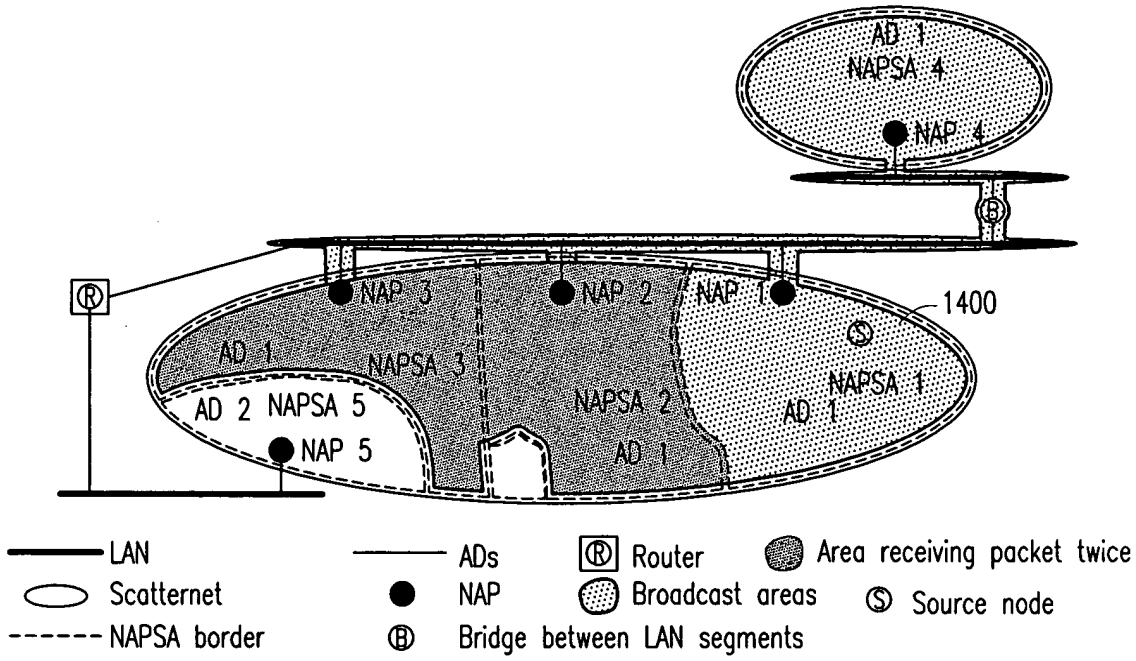
AD 1
NAPSA 4
NAP 4
B
R
NAP 3
NAP 2
NAP 1
1400
S
AD 1
NAPSA 3
AD 2 NAPSA 5
NAP 5
NAPSA 2
AD 1
NAPSA 1
AD 1
LAN
ADs
Router
Area receiving packet twice
Scatternet
NAP
Broadcast areas
Source node
NAPSA border
Bridge between LAN segments

FIG. 14

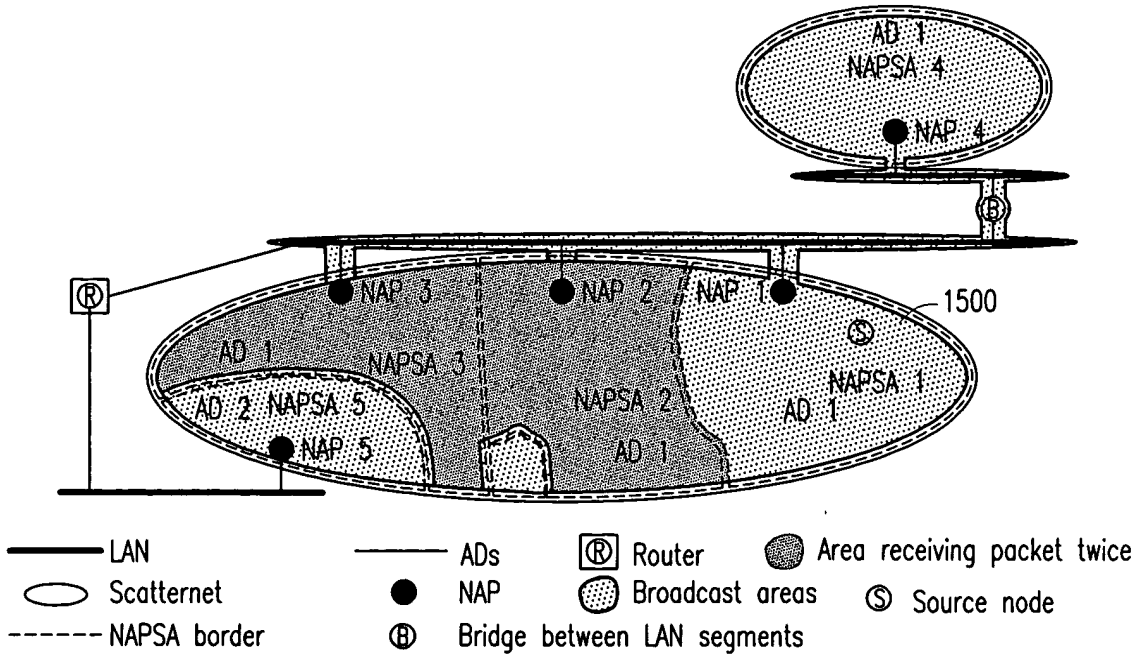
AD 1
NAPSA 4
NAP 4
B
R
NAP 3
NAP 2
NAP 1
1500
S
AD 1
NAPSA 3
AD 2 NAPSA 5
NAP 5
NAPSA 2
AD 1
NAPSA 1
AD 1
LAN
ADs
Router
Area receiving packet twice
Scatternet
NAP
Broadcast areas
Source node
NAPSA border
Bridge between LAN segments

FIG. 15

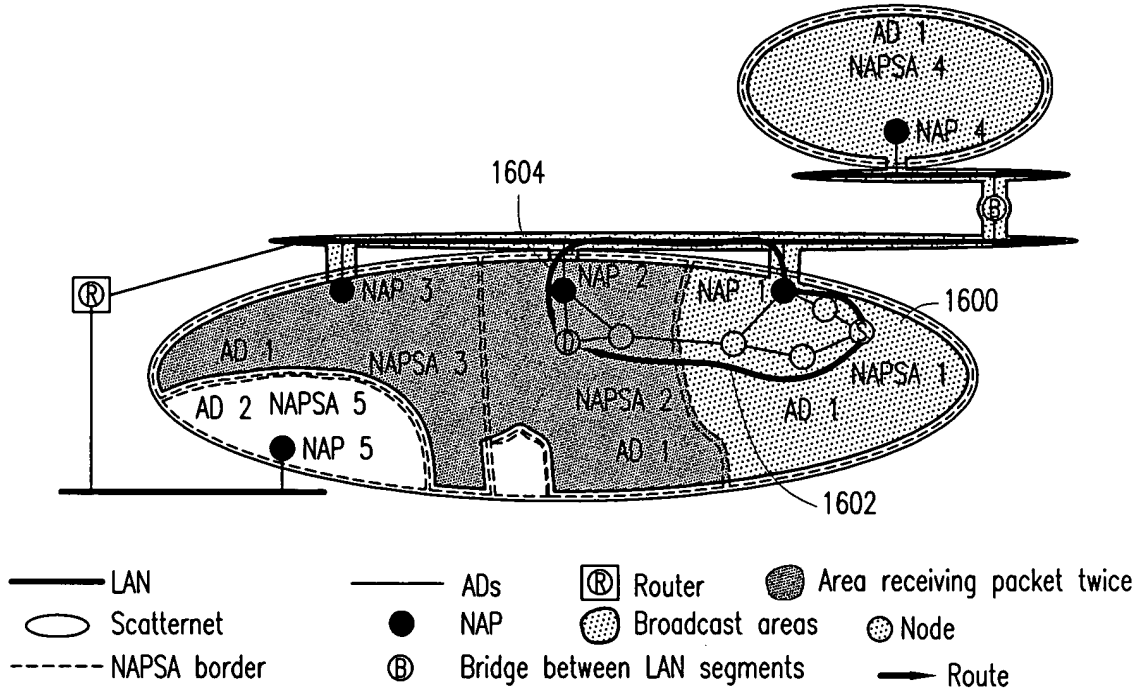
AD 1
NAPSA 4
NAP 4
1604
NAP 3
NAP 2
NAP 1
1600
AD 1
NAPSA 3
AD 2 NAPSA 5
NAP 5
NAPSA 2
AD 1
NAPSA 1
AD 1
1602
LAN
Scatternet
NAPSA border
ADs
NAP
Bridge between LAN segments
Router
Broadcast areas
Area receiving packet twice
Node
Route

FIG. 16

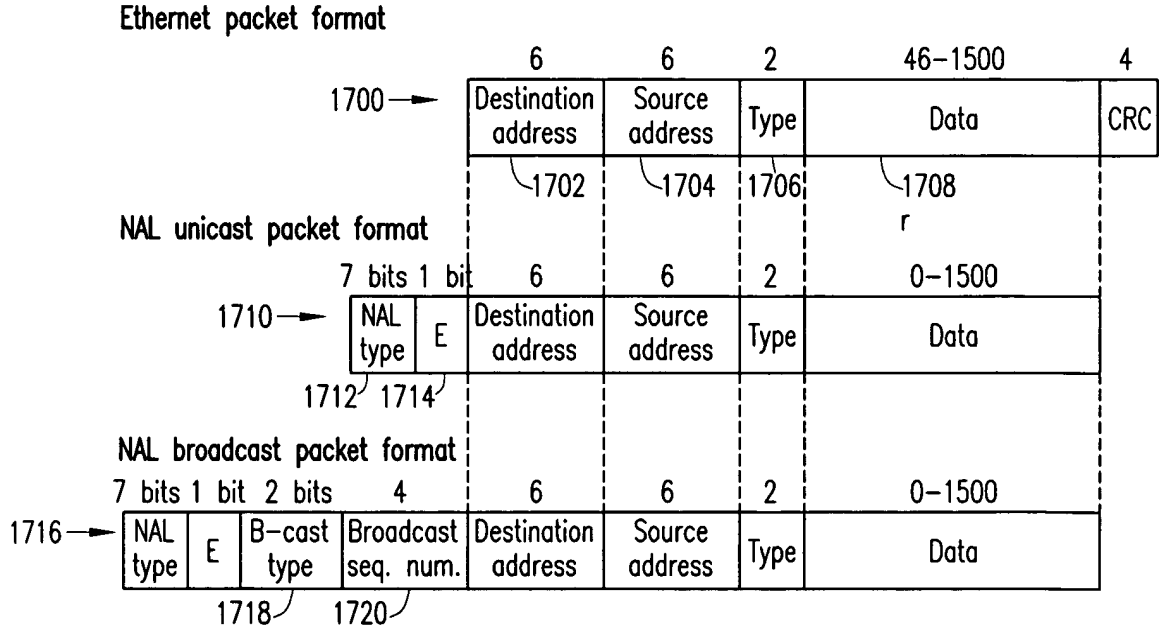
Ethernet packet format
6
6
2
46–1500
4
1700
Destination address
Source address
Type
Data
CRC
1702
1704
1706
1708
NAL unicast packet format
7 bits 1 bit
6
6
2
0–1500
1710
NAL type
E
Destination address
Source address
Type
Data
1712
1714
NAL broadcast packet format
7 bits 1 bit 2 bits
4
6
6
2
0–1500
1716
NAL type
E
B–cast type
Broadcast seq. num.
Destination address
Source address
Type
Data
1718
1720

FIG. 17

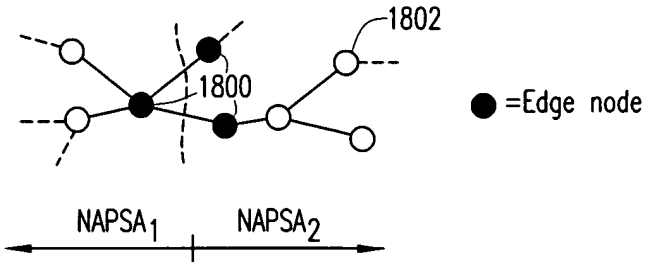

FIG. 18

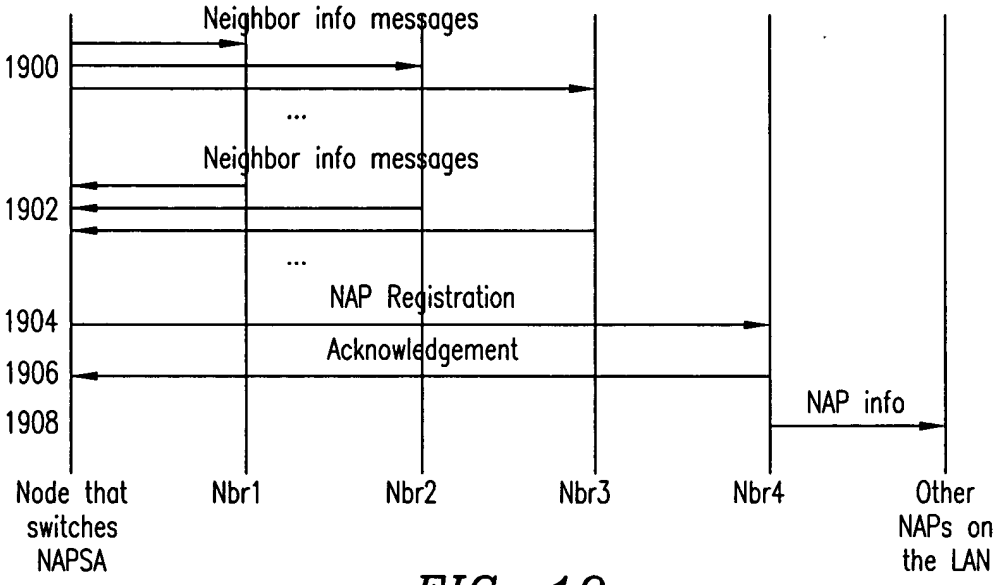

FIG. 19

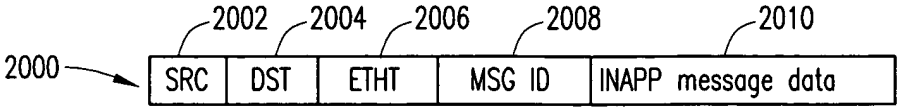

FIG. 20

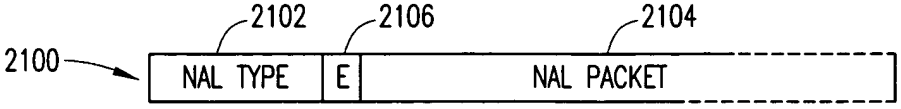

FIG. 21

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